MONTHLY BULLETIN

OF

# THE OBSERVATORY

## AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, LEBANON

LAT. 33° 54' 22" N.

LONG. E. FROM GREENWICH 35° 28' 10"

**July 1949**

ROBERT W. SLOANE, DIRECTOR

Printed at the American Press
Beirut, Lebanon

LIBRARY
NOV 23 1955
WEATHER BUREAU

# JULY 1949

## METEOROLOGICAL REGISTER

| Date | Barometer reduced to O°C Sea level and 45° Latitude 700 mm. +... | | | | Thermometer Degrees Centigrade | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 14:30 | 20:30 | Mean | Max. | Min. | 8:30 | 14:30 | 20:30 | Mean |
| 1 | 56.5 | 55.5 | 55.5 | 55.8 | 31.4 | 21.8 | 27.2 | 29.9 | 24.3 | 27.1 |
| 2 | 5.5 | 5.2 | 5.8 | 5.5 | 31.5 | 22.2 | 27.2 | 30.5 | 24.9 | 27.5 |
| 3 | 5.3 | 4.9 | 5.7 | 5.3 | 32.4 | 23.3 | 28.9 | 30.8 | 25.1 | 28.3 |
| 4 | 9.1 | 8.6 | 8.8 | 8.8 | 30.4 | 21.7 | 27.3 | 30.0 | 23.8 | 27.0 |
| 5 | 7.9 | 7.0 | 7.3 | 7.4 | 30.0 | 21.6 | 26.8 | 29.4 | 23.7 | 26.6 |
| 6 | 57.6 | 57.5 | 58.3 | 57.8 | 31.3 | 21.1 | 27.2 | 30.5 | 24.1 | 27.3 |
| 7 | 8.8 | 7.8 | 7.6 | 8.1 | 30.4 | 22.1 | 26.3 | 28.8 | 23.5 | 26.2 |
| 8 | 6.1 | 4.5 | 4.0 | 4.9 | 32.0 | 22.3 | 28.3 | 30.8 | 25.1 | 28.1 |
| 9 | 2.7 | 2.5 | 2.4 | 2.5 | 32.0 | 23.2 | 27.8 | 30.9 | 25.2 | 28.0 |
| 10 | 1.8 | 2.0 | 1.8 | 1.9 | 31.7 | 24.3 | 28.7 | 30.6 | 23.6 | 27.6 |
| 11 | 51.3 | 1.6 | 52.2 | 1.7 | 31.6 | 24.2 | 27.7 | 30.7 | 26.1 | 28.2 |
| 12 | 3.3 | 4.0 | 5.2 | 4.2 | 32.0 | 23.1 | 27.8 | 31.1 | 24.8 | 27.9 |
| 13 | 6.7 | 7.3 | 8.1 | 7.4 | 31.2 | 21.9 | 27.2 | 30.5 | 23.9 | 27.2 |
| 14 | 7.4 | 6.6 | 6.9 | 7.0 | 31.2 | 22.4 | 27.7 | 30.5 | 24.4 | 27.5 |
| 15 | 6.1 | 5.3 | 5.5 | 5.6 | 31.0 | 21.6 | 27.9 | 30.4 | 24.4 | 27.6 |
| 16 | 55.2 | 54.4 | 4.6 | 54.7 | 31.2 | 22.8 | 27.4 | 30.4 | 24.3 | 27.4 |
| 17 | 5.2 | 5.5 | 5.8 | 5.5 | 32.9 | 24.1 | 27.9 | 32.0 | 25.9 | 28.3 |
| 18 | 5.1 | 4.2 | 3.6 | 4.3 | 32.4 | 24.6 | 28.8 | 32.3 | 25.8 | 29.0 |
| 19 | 1.9 | 1.5 | 1.1 | 1.5 | 32.0 | 24.0 | 28.1 | 30.9 | 26.1 | 28.4 |
| 20 | 1.7 | 2.1 | 3.3 | 2.4 | 32.9 | 23.9 | 29.1 | 32.3 | 25.7 | 29.0 |
| 21 | 54.2 | 54.1 | 56.2 | 54.8 | 32.4 | 23.1 | 28.8 | 31.9 | 25.7 | 28.8 |
| 22 | 4.9 | 4.3 | 4.9 | 4.7 | 31.8 | 22.1 | 28.3 | 30.5 | 25.2 | 28.0 |
| 23 | 4.6 | 4.0 | 4.3 | 4.3 | 31.8 | 21.8 | 28.8 | 30.8 | 24.9 | 28.2 |
| 24 | 4.2 | 4.0 | 4.4 | 4.2 | 31.9 | 21.4 | 27.2 | 30.3 | 24.9 | 27.5 |
| 25 | 5.1 | 4.9 | 5.5 | 5.2 | 31.4 | 21.3 | 27.9 | 30.5 | 24.8 | 27.7 |
| 26 | 55.9 | 55.2 | 55.4 | 55.5 | 31.4 | 23.2 | 27.2 | 30.8 | 25.1 | 27.7 |
| 27 | 5.6 | 5.8 | 6.0 | 6.1 | 31.8 | 22.7 | 28.5 | 30.6 | 25.2 | 28.1 |
| 28 | 5.9 | 5.2 | 5.0 | 5.4 | 32.3 | 24.6 | 28.9 | 31.5 | 25.9 | 28.8 |
| 29 | 4.0 | 3.5 | 3.4 | 3.6 | 32.2 | 23.8 | 28.8 | 30.9 | 25.6 | 28.4 |
| 30 | 2.5 | 2.3 | 2.6 | 2.5 | 32.6 | 23.6 | 27.8 | 31.6 | 25.7 | 28.4 |
| 31 | 3.1 | 2.9 | 3.5 | 3.2 | 32.7 | 24.2 | 28.5 | 31.6 | 26.5 | 28.9 |
| | 55.00 | 54.65 | 55.00 | 54.87 | 31.73 | 22.84 | 27.94 | 30.78 | 24.97 | 27.89 |

Barometer, range for month 759.1 — 751.1 mm.

,, 71-yr. average for month 755.46 mm.

Thermometer, range for month 32.9°C — 21.1°C

,, 71-yr. average for month 28.02°C.

Rain, total for month 0.0 mm.

,, 71-yrs. average for month 0.44 mm.

,, Tolal, Sept. 1st. to end of month 1200.15 mm.

,, 71-yr. average, Sept. 1st. to end of month 891.85 mm.

# JULY 1949

## METEOROLOGICAL REGISTER

| Date | Pressure of Water Vapor Millibare | | | | Relative Humidity per cent. | | | | sun. | Wind per day | Rain |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 14:30 | 20:30 | Mean | 8:30 | 14:30 | 20:30 | Mean | Hrs. | Kms. | m.m. |
| 1 | 28.3 | 30.5 | 24.1 | 27.6 | 78 | 72 | 79 | 76 | 13.1 | 431.0 | |
| 2 | 29.9 | 31.0 | 27.3 | 29.1 | 82 | 70 | 86 | 79 | 12.9 | 412.0 | |
| 3 | 30.1 | 32.5 | 27.2 | 29.9 | 76 | 72 | 86 | 78 | 13.3 | 280.0 | |
| 4 | 27.7 | 28.4 | 26.0 | 27.4 | 77 | 67 | 88 | 77 | 12.9 | 161.0 | |
| 5 | 27.4 | 28.3 | 25.9 | 27.2 | 79 | 69 | 88 | 79 | 13.1 | 103.0 | |
| 6 | 29.2 | 31.7 | 26.6 | 29.2 | 82 | 72 | 89 | 81 | 13.0 | 254.0 | |
| 7 | 28.2 | 32.5 | 27.9 | 29.5 | 81 | 82 | 96 | 86 | 13.1 | 212.0 | |
| 8 | 32.1 | 34.0 | 30.0 | 32.0 | 83 | 77 | 94 | 85 | 12.9 | 229.0 | |
| 9 | 36.4 | 34.8 | 29.8 | 33.7 | 86 | 77 | 93 | 85 | 12.7 | 520.0 | |
| 10 | 32.7 | 34.6 | 27.0 | 31.4 | 83 | 79 | 93 | 85 | 12.8 | 626.0 | |
| 11 | 32.5 | 36.2 | 26.5 | 31.7 | 86 | 82 | 78 | 82 | 13.0 | 557.0 | |
| 12 | 31.7 | 35.0 | 28.8 | 31.5 | 85 | 77 | 92 | 85 | 12.9 | 423.0 | |
| 13 | 28.4 | 29.4 | 25.4 | 27.7 | 80 | 67 | 85 | 77 | 12.8 | 462.0 | |
| 14 | 26.5 | 29.0 | 26.1 | 27.2 | 72 | 66 | 85 | 74 | 12.7 | 412.0 | |
| 15 | 31.0 | 29.0 | 26.1 | 28.7 | 76 | 67 | 85 | 76 | 12.8 | 274.0 | |
| 16 | 29.2 | 32.8 | 25.7 | 29.2 | 81 | 75 | 84 | 80 | 12.8 | 164.0 | |
| 17 | 32.5 | 37.0 | 30.8 | 33.4 | 87 | 78 | 92 | 86 | 12.9 | 435.0 | |
| 18 | 33.2 | 35.9 | 31.0 | 33.4 | 83 | 74 | 94 | 84 | 12.9 | 647.0 | |
| 19 | 31.7 | 36.0 | 32.1 | 33.3 | 86 | 80 | 94 | 87 | 12.7 | 801.0 | |
| 20 | 32.4 | 38.0 | 31.7 | 34.0 | 81 | 78 | 96 | 85 | 12.5 | 600.0 | |
| 21 | 33.2 | 34.1 | 30.0 | 32.4 | 83 | 72 | 91 | 82 | 12.8 | 581.0 | |
| 22 | 30.5 | 32.5 | 29.8 | 30.9 | 79 | 74 | 93 | 82 | 12.6 | 306.0 | |
| 23 | 30.1 | 30.6 | 28.5 | 29.7 | 76 | 69 | 90 | 78 | 11.2 | 336.0 | |
| 24 | 27.0 | 30.3 | 27.8 | 28.4 | 74 | 70 | 88 | 77 | 10.8 | 360.0 | |
| 25 | 27.3 | 30.8 | 28.0 | 28.7 | 73 | 70 | 89 | 77 | 11.6 | 301.0 | |
| 26 | 29.9 | 31.7 | 29.1 | 30.2 | 83 | 73 | 92 | 83 | 11.8 | 254.0 | |
| 27 | 32.9 | 33.5 | 29.9 | 32.1 | 85 | 76 | 94 | 85 | 12.1 | 257.0 | |
| 28 | 31.6 | 36.3 | 29.7 | 32.5 | 79 | 79 | 88 | 82 | 11.9 | 280.0 | |
| 29 | 34.0 | 27.3 | 27.6 | 29.6 | 85 | 61 | 84 | 77 | 12.0 | 438.0 | |
| 30 | 26.5 | 27.7 | 26.6 | 26.9 | 70 | 59 | 80 | 70 | 12.3 | 396.0 | |
| 31 | 26.1 | 26.7 | 27.0 | 26.6 | 67 | 59 | 78 | 68 | 12.2 | 406.0 | |
| | 30.33 | 32.20 | 28.06 | 30.18 | 79.9 | 72.3 | 88.5 | 80.3 | 12.55 | 384.45 | 0.00 |

Height of Barometer above sea level: 33.7 meters.
,, ,, Thermometers above ground:
Dry and wet 1.55 m ; Max. 1.75 m.; Min. 1.70 m.
Rim of Rain Gauge: above ground 0.56 m.; above sea level 30.31 m.
Time of reading minus 2 hours equal G.C.T.
71year averages are for period, 1875-1945

# JULY 1949

## METEOROLOGICAL REGISTER

| Date | Clouds clear—0 Overcast—10 | | | | Direction and force of wind Beaufort scale | | | Sea | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | 8.30 | 14:30 | 20:30 | Mean | 8:30 | 14:30 | 20:30 | | |
| 1 | 0 | 0 | 0 | 0.0 | 2sw | 2sw | 1sw | slight | |
| 2 | 0 | 0 | 0 | 0.0 | 2sw | 1nw | 1nw | „ | |
| 3 | 0 | 0 | 0 | 0.0 | 1ne | 1ne | 1ne | light | |
| 4 | 0 | 2cu | 3cu | 1.7 | 2w | 2nw | 2nw | slight | |
| 5 | 0 | 0 | 0 | 0.0 | 1nw | 1n | 1nw | light | |
| 6 | 0 | 1cu | 0 | 0.3 | 2sw | 2sw | 0 | light | |
| 7 | 0 | 0 | 0 | 0.0 | 1w | 2nw | 0 | „ | |
| 8 | 0 | 0 | 0 | 0.0 | 1w | 2nw | 0 | „ | |
| 9 | 0 | 1cu | 0 | 0.3 | 3sw | 2sw | 2sw | slight | |
| 10 | 0 | 0 | 0 | 0.0 | 5sw | 4sw | 2sw | „ | |
| 11 | 0 | 0 | 0 | 0.0 | 3sw | 4sw | 2sw | slight | |
| 12 | 0 | 1cu | 0 | 0.3 | 2sw | 3sw | 0 | „ | |
| 13 | 1ci | 0 | 2cu | 1.0 | 2w | 2nw | 1nw | „ | |
| 14 | 1cu-ci | 2cu-ci | 3cu | 2.0 | 2w | 3sw | 2w | „ | |
| 15 | 1ci | 1cu | 2cu | 1.3 | 2sw | 2w | 1sw | „ | |
| 16 | 0 | 0 | 0 | 0.0 | 2sw | 2nw | 2nw | light | |
| 17 | 0 | 0 | 0 | 0.0 | 3sw | 2sw | 0 | „ | |
| 18 | 0 | 0 | 0 | 0.0 | 4sw | 3sw | 3sw | slight | |
| 19 | 0 | 2cu | 0 | 0.7 | 5sw | 3sw | 4sw | „ | W. all day. |
| 20 | 0 | 4cu-ci | 2cu | 2.0 | 4sw | 2sw | 0 | light | |
| 21 | 0 | 1ci | 0 | 0.3 | 2sw | 3sw | 1sw | light | |
| 22 | 1cu-ci | 2cu-ci | 4cu-ci | 2.3 | 2sw | 2sw | 1sw | slight | |
| 23 | 0 | 2cu-ci | 3cu-ci | 1.7 | 3sw | 2sw | 2sw | „ | |
| 24 | 2cu | 4cu-ci | 5cu-st | 3.7 | 3sw | 2sw | 2sw | light | |
| 25 | 0 | 2cu | 3cu-ci | 1.7 | 3sw | 2sw | 1sw | „ | |
| 26 | 0 | 2cu-ci | 3ci-cu | 1.7 | 1w | 2w | 0 | light | |
| 27 | 0 | 1cu-ci | 0 | 0.3 | 1sw | 2w | 0 | „ | |
| 28 | 1cu-ci | 2cu-ci | 0 | 1.0 | 3sw | 3sw | 0 | „ | |
| 29 | 0 | 2cu-ci | 2cu | 1.3 | 4sw | 3sw | 1sw | „ | |
| 30 | 0 | 0 | 0 | 0.0 | 2sw | 2w | 1sw | „ | |
| 31 | 0 | 0 | 7cu | 2.3 | 3sw | 3sw | 2sw | slight | |
| | | | | 0.84 | | | | | |

Abbreviations :— G = gale; H = haze; M = mist; T = thunderstorm; D = dew.
W = strong wind; Tr = trace of rain

### Number of Daily Wind Observations

| Time | N | NE | E | SE | S | SW | W | NW | Calm | Totals |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:30 | 0 | 1 | 0 | 0 | 0 | 23 | 6 | 1 | 0 | 31 |
| 14:30 | 1 | 1 | 0 | 0 | 0 | 18 | 5 | 6 | 0 | 31 |
| 20:30 | 0 | 1 | 0 | 0 | 0 | 15 | 1 | 5 | 9 | 31 |
| Total | 1 | 3 | 0 | 0 | 0 | 56 | 12 | 12 | 9 | 93 |

Number of days with rain 0, fog 0, thunderstorms 0, gale 0.

71 yr. av. number of days with rain during month 0.17